



全漢企業股份有限公司

SPI Electronic Co., Ltd.

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SPECIFICATION



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SPECIFICATION

FSP065-ASC

P.E	R/D	APPROVED	REV.
Larry	Anson Liao	LJ Wei	000

表單編號：7000P-0105



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Electrical Specification

History

REV.	Description	Date	Drawn	Mechanical	Electrical	Approved
<u>000</u>	SPEC ISSUE	Nov.02'04	Zhiling	Grant Lu	Anson Liao	LJ Wei

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Electrical Specification

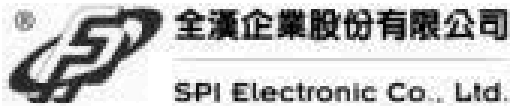
Electrical Requirements

1. Input Characteristics:

ITEM	CONDITION	SPECIFICATION
1.1 Rated Input Voltage		100V / 240V
1.2 Input Voltage Range		90VAC to 264VAC
1.3 Input Frequency Range		47Hz to 63Hz (± 1Hz)
1.4 Input Voltage Harmonic Distortion		≤ 8%
1.5 Input Current	100Vac, 240Vac / 3.42A load	≤ 1.5A
1.6 Efficiency: (Warm up 10minutes later)	100Vac / 3.42A 240Vac / 3.42A	≥ 84% ≥ 84%
1.7 No Load Power Consumption (Power saving)	240Vac / 0A	≤ 0.5W

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Electrical Specification

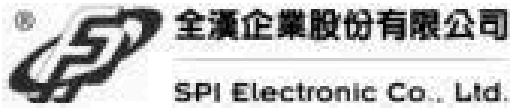
2. Output Characteristics:

※Measured at the end of DC cable.

ITEM	CONDITION	SPECIFICATION
2.1 Output Rated Voltage		19V
2.2 Output Current	at constant voltage mode	0A to 3.42A
2.3 Output Voltage Setting	at the output end of DC cable	19V ± 5%
2.4 Output Voltage Ripple and Noise: (0.1uF Ceramic Cap. and 35V 47uF Aluminum Cap. Paralleled between the end of output cable)	100Vac / 3.42A 240Vac / 3.42A	≤ 300mVp-p
2.5 Output Overshoot Voltage:	From full load to no load, the output Overshoot voltage.	≤ 8% of Vo
2.6 Turn-On Delay Time:	At 100Vac / 65W load, output voltage shall remain regulation	≤ 2Sec.
2.7 Hold Up Time:	At 100Vac or 240Vac / 65W load, output voltage shall remain regulation	≥ 6mS
2.8 Rise Time:	At 100Vac / 65W load, DC output rise time from 5% to 95% of Vo	≤ 50mS
2.9 Dynamic Load Change:	Output load step is 50% of full load, S/R=0.5A/us, frequency is 100Hz and 10KHz, the output regulation will be	19V ± 5%

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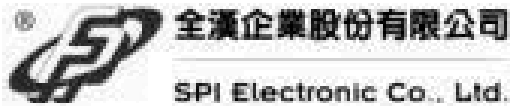
Electrical Specification

3. Protection Characteristics:

ITEM	CONDITION	SPECIFICATION
3.1 Short Circuit Protection:	When an internal fault occurs, or an external fault is applied to the power supply, such that an overload or short circuit is applied to the output, the power supply shall shut down and enter auto-recovery or latch mode.	Shutdown and no damage
3.2 Over-Voltage Protection	The output voltage will enter into shut down that means no output on output, while over voltage happened at output terminal that caused by internal fault. The output trip voltage will be less than 130% of its voltage rating. That will be return to normal state by AC reset.	Shutdown and no damage
3.3 Over Current Protection:	When an internal fault occurs, or an external fault is applied to the power supply, such that an overload or short circuit is applied to the output, the power supply shall shut down and enter auto-recovery or latch mode.	Shutdown and no damage
3.4 Over Temperature Protection:	The AC power supply will enter into shut down while the abnormal thermal rise occurs. It will enter into normal condition if the fault condition is removed. That will be return to normal state by AC reset.	No broken, no smoke

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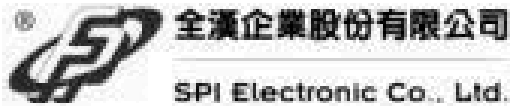
Electrical Specification

4. Environmental Characteristics:

ITEM	CONDITION	SPECIFICATION
4.1 Electric Fast Transients : Refer to IEC1000- 4-4 level 3	Impulse: ±1kV applied to L,N and chassis, pulse duration 50nS period 5 minutes.	Normal operation shall be continued.
	Impulse: ±2kV applied to L, N and chassis, pulse duration 50nS period 5 minutes.	Normal operation shall be continued.
4.2 Lightning Surge: Refer to IEC1000-4-5 level 3	±1kV applied differential mode, pulse rise time 1.2uS and duty time 50uS.	Normal operation shall be continued.
	±2kV applied common mode, pulse rise time 1.2uS and duty time 50uS.	Normal operation shall be continued.
4.3 Electron Static Discharge: (Refer to IEC1000-4-2 Energy Storage Capacitor 150pF; Discharge Resistor 330Ω)	Air Discharge: ± 15KV min. Contact Discharge: ±8KV min.	Normal operation shall be continued.
4.4 Cooling	Natural air cooling	
4.5 EMI: Adapter comply with the following national standards: EMI Conducted Emission EMI Radiated Emission	FCC. DOCKET 20780. PART 15J. CLASS B CISPR22 : 1993/EN55022(1994):CLASS B VCCI CLASS II	Test with system.
4.6 Safety conforming:	Regulated by customer	
4.7 Leakage Current	240Vac / 60Hz 100Vac / 60Hz	≤ 250uA ≤ 100uA

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ITEM	CONDITION	SPECIFICATION
4.8 Insulation Resistance:	Between AC input and secondary applied 500Vdc for 1 minute. DC 500V, test time: 1sec for mass production.	≥ 100MΩ
4.9 Dielectric Strength: (Hi-Pot)	Between AC input and secondary applied AC 3KV / test time 1 minute / cut off current shall be less than 10mA AC 3KV / test time 1 sec. for mass production.	
4.10 Temperature:	Operating Storage	0 to 40°C -20 to +80°C
4.11 Humidity:	Operating Storage	20% ~ 80% 10% ~ 90%

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5. Mechanical Characteristics:

ITEM	CONDITION	SPECIFICATION
5.1 Dimension (Length x Width x Height)		125 x 53 x 32.5 mm
5.2 Adapter weight Case material		280g (typical)
5.3 Input AC socket Type		IEC 320-C8 Type
5.4 Output DC Cable Length Wire style		L=1800±50mm UL 1571 18AWG
5.5 Color Case DC Cable (including Molding Core)		Black Black

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